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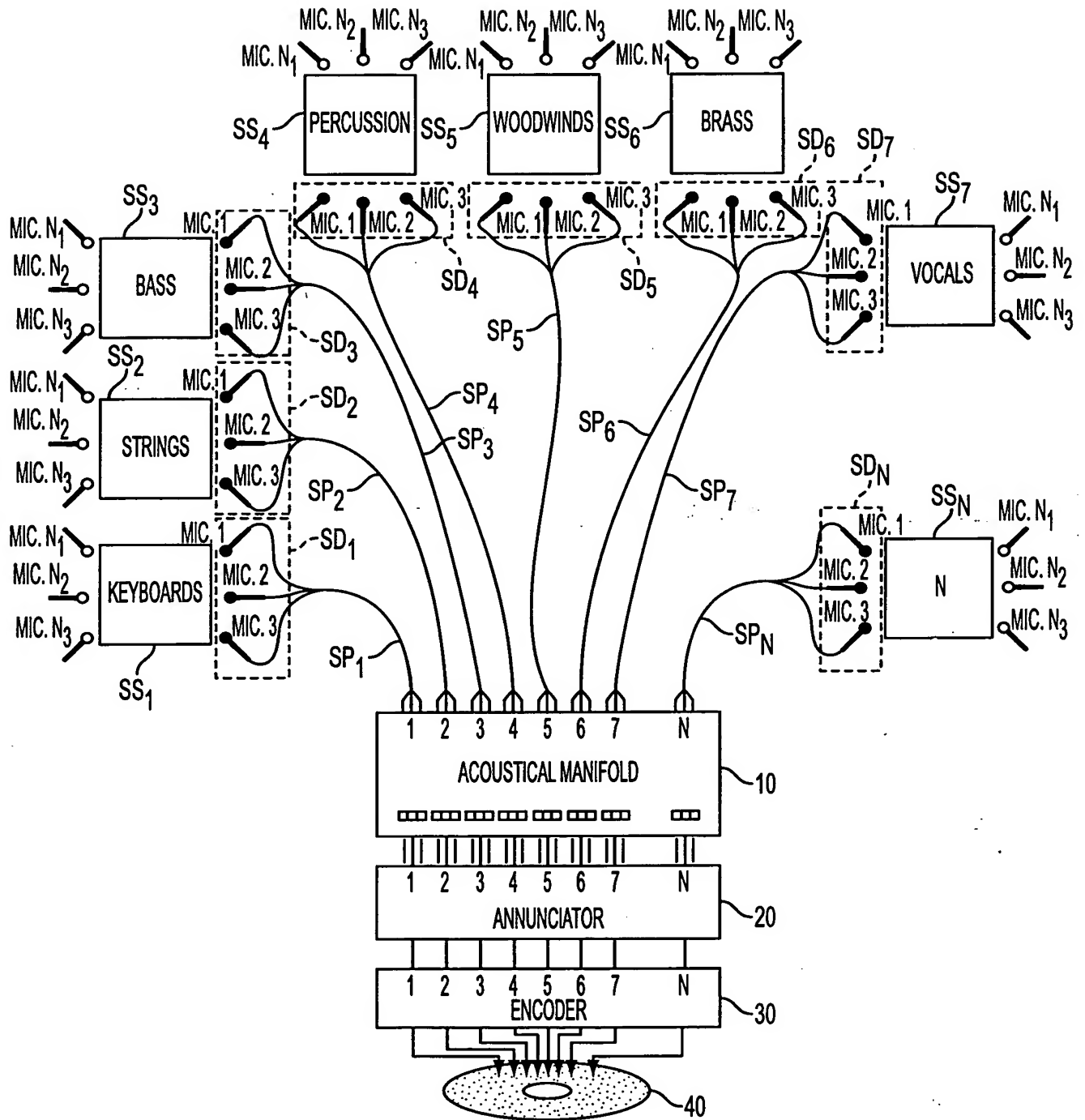


FIG. 1

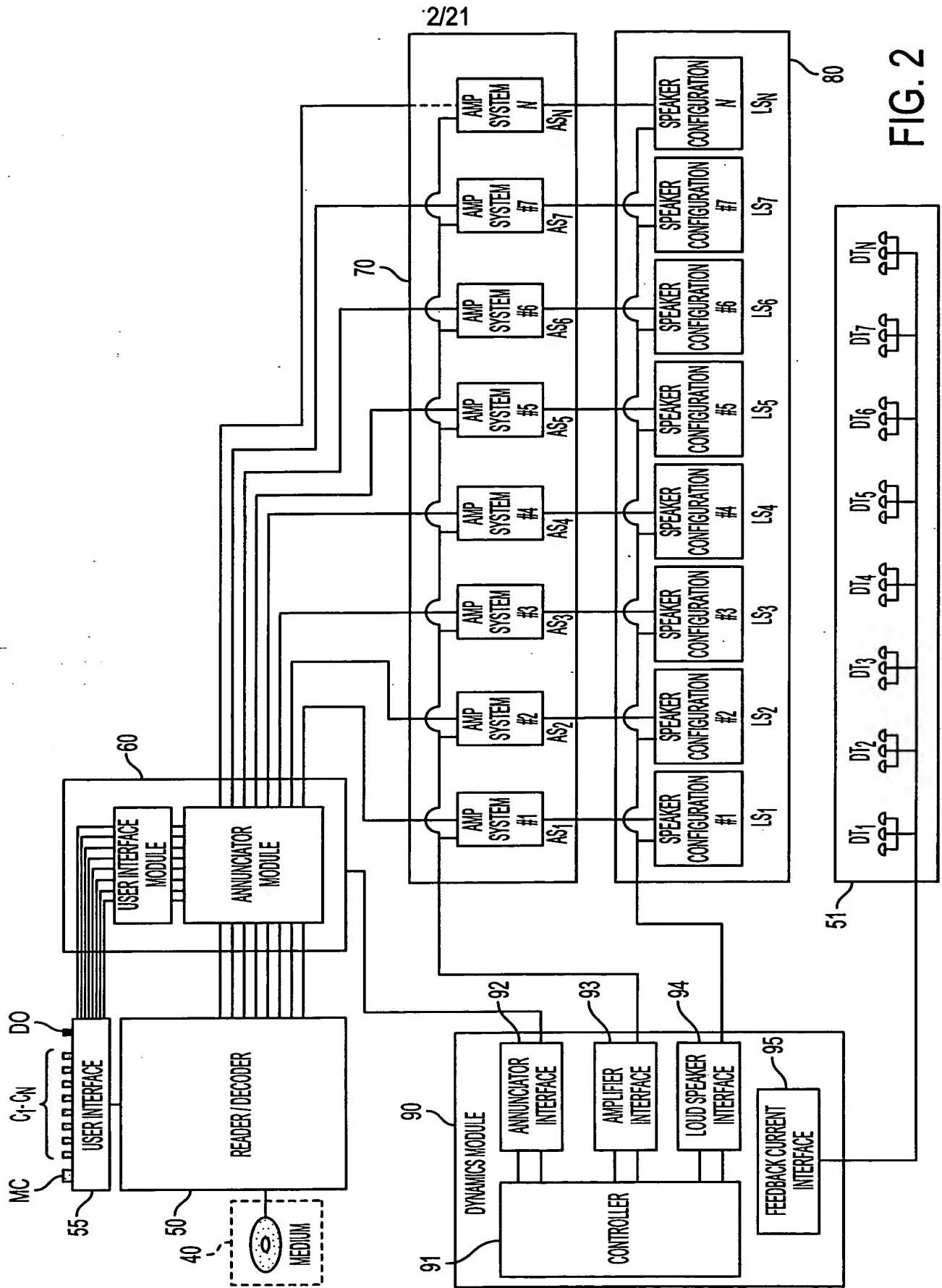


FIG. 2

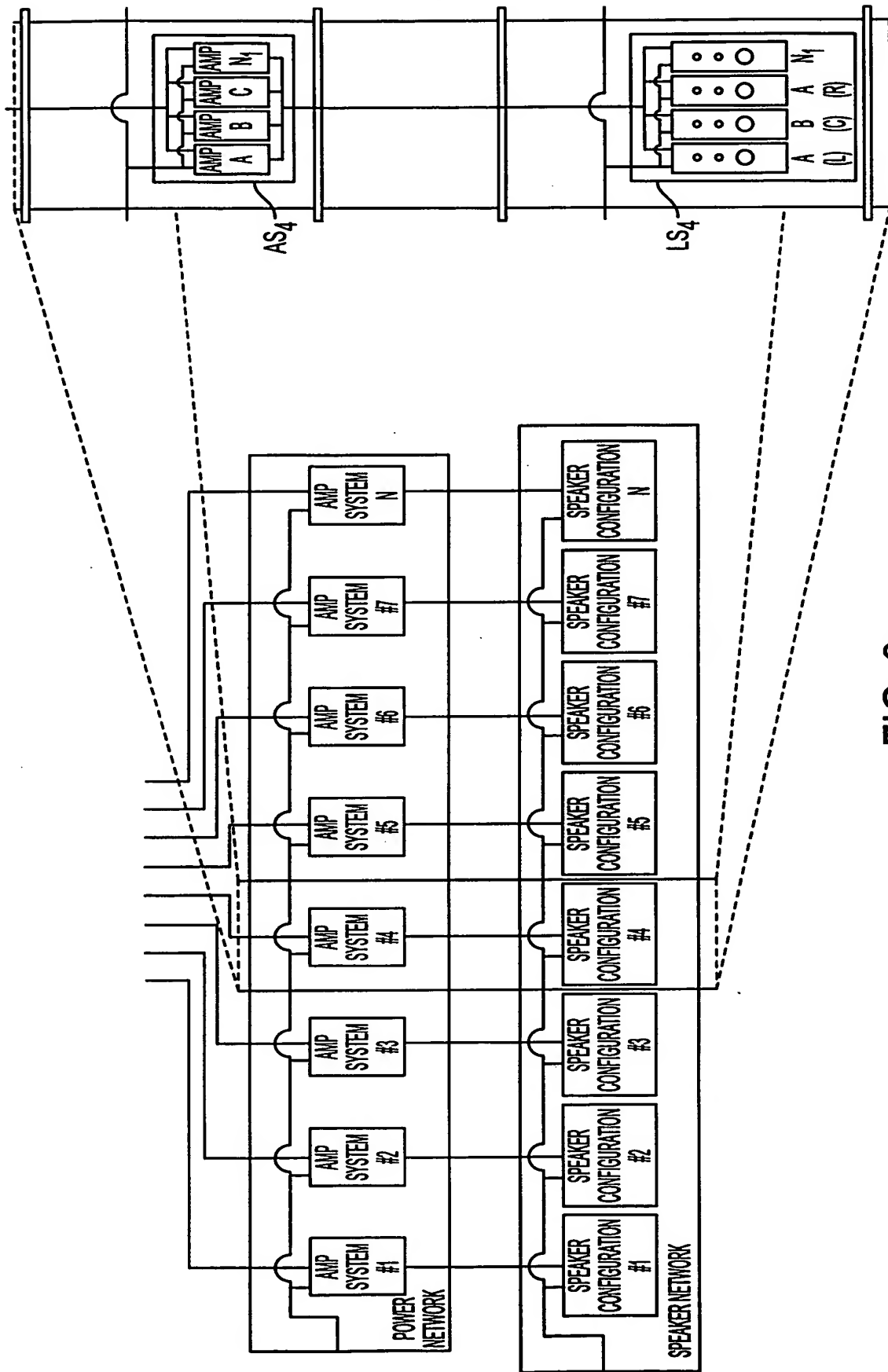


FIG. 3

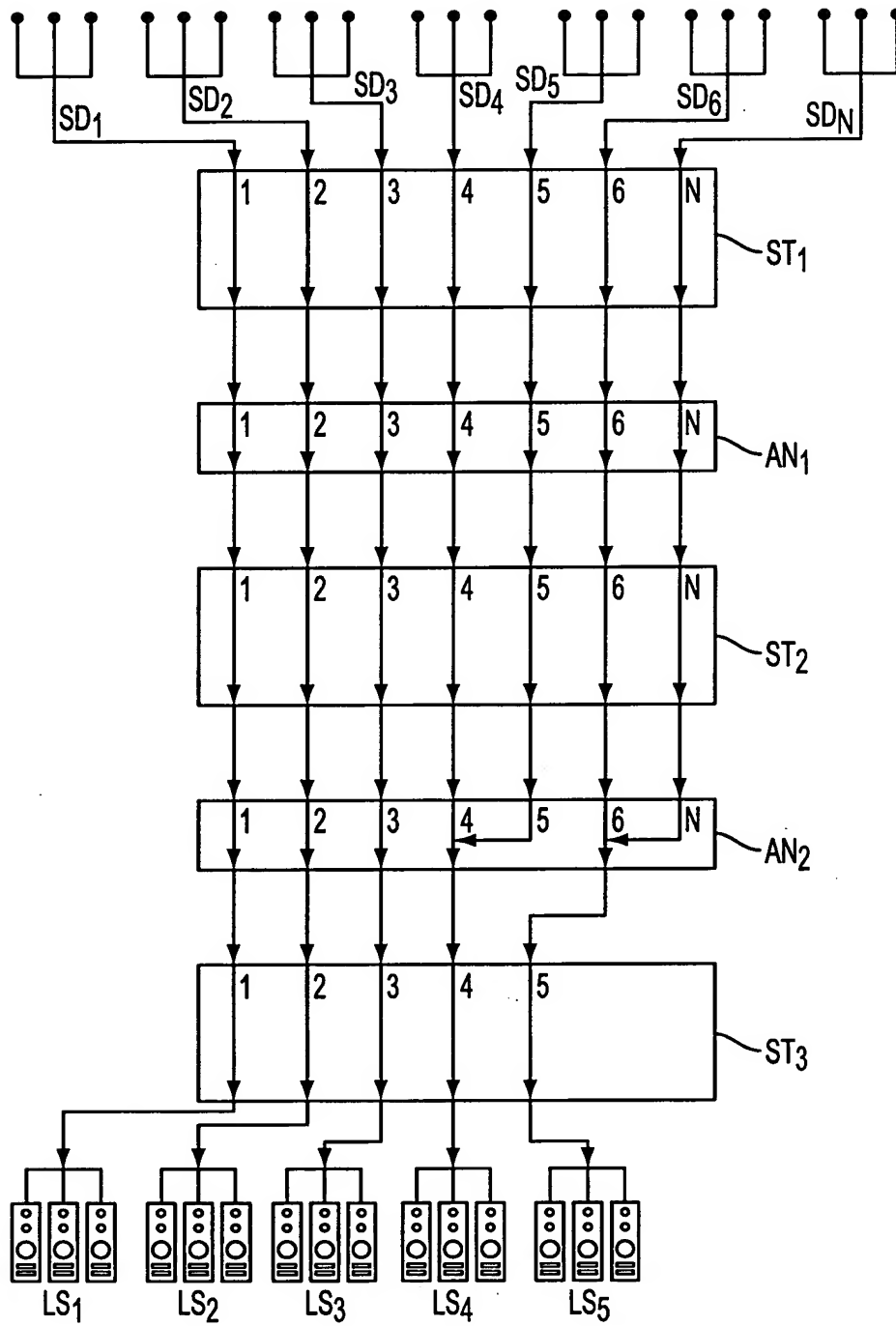


FIG. 4

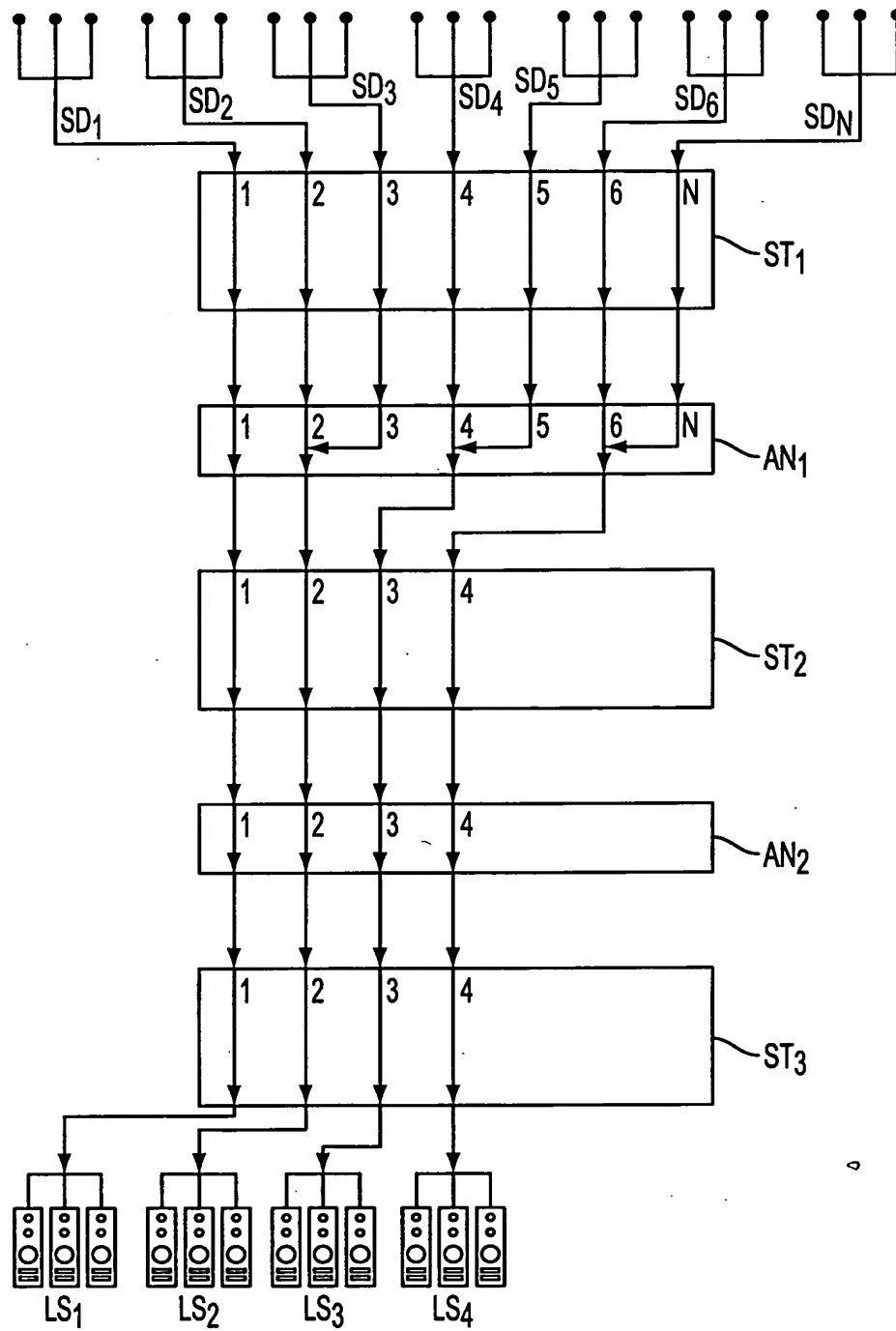


FIG. 5



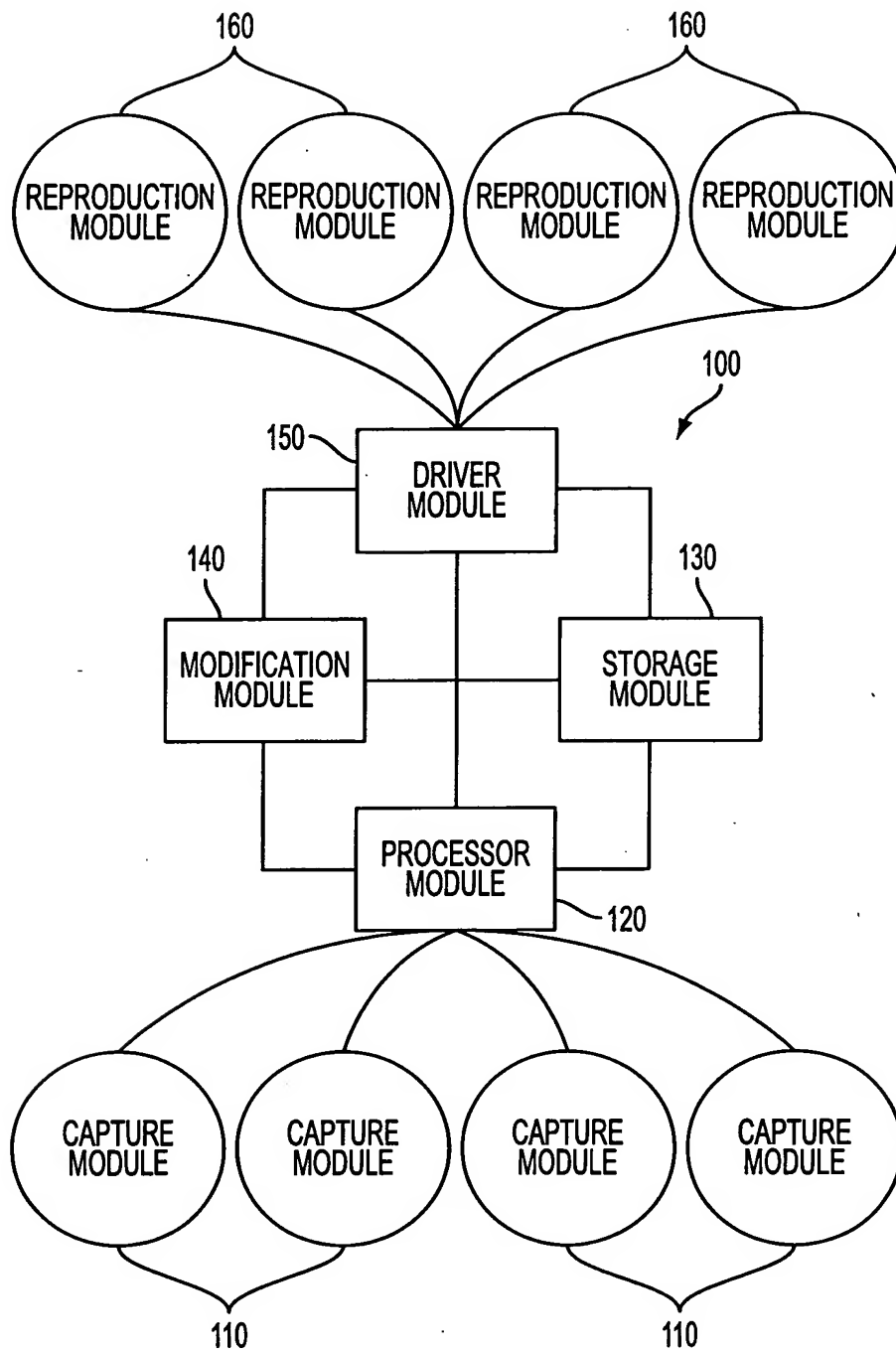


FIG. 7



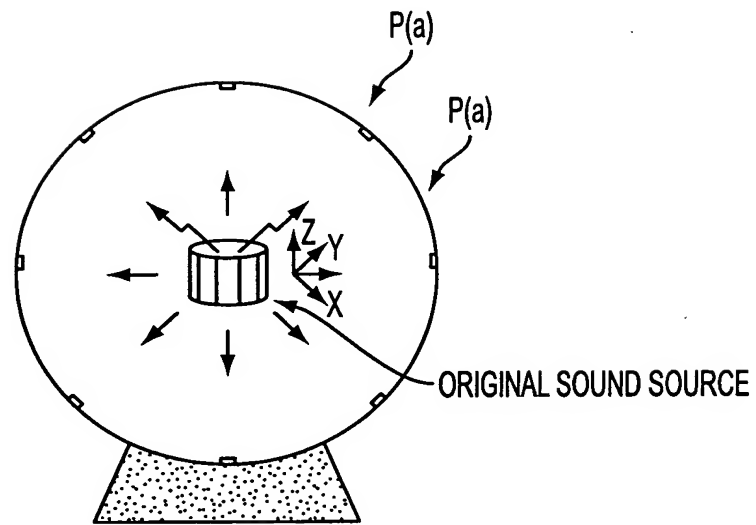


FIG. 8

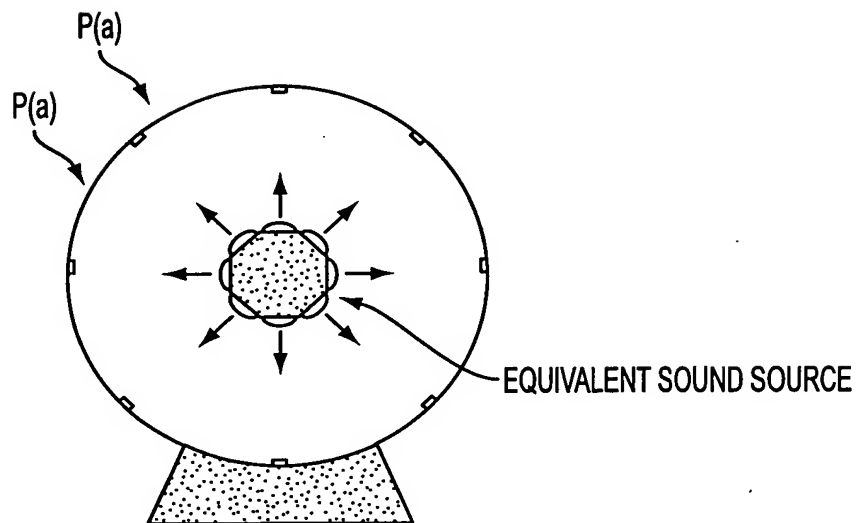


FIG. 9

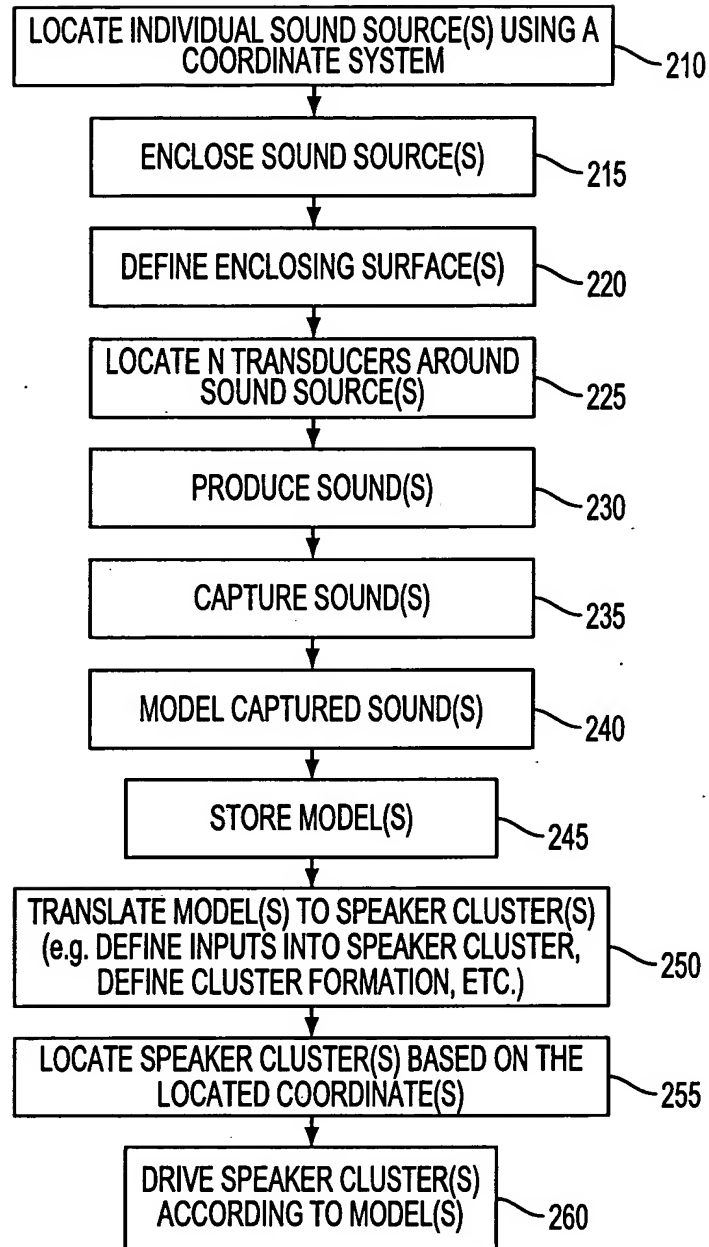


FIG. 10

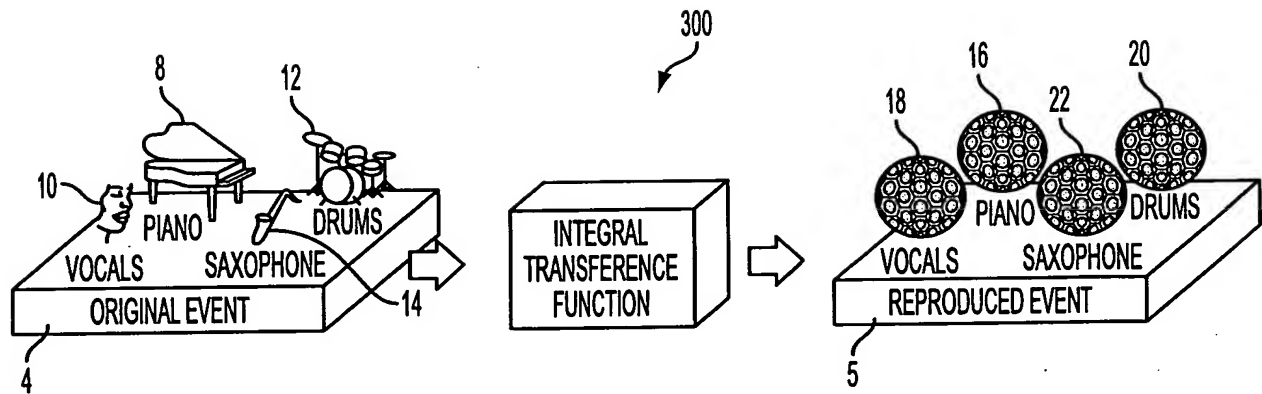


FIG. 11A

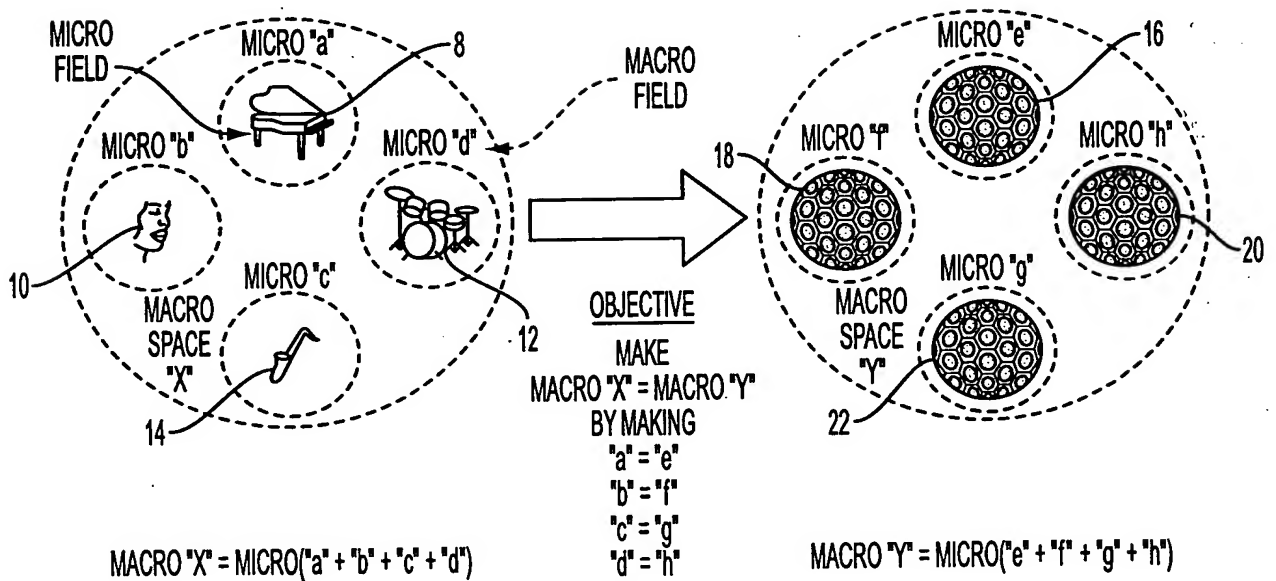


FIG. 11B

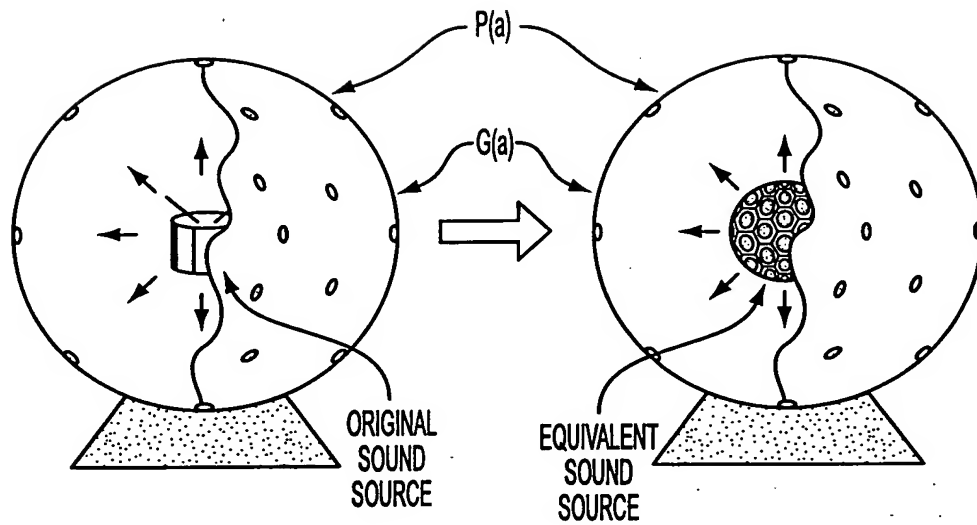


FIG. 12A

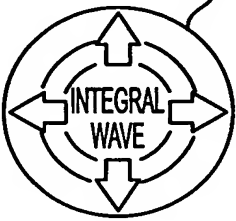
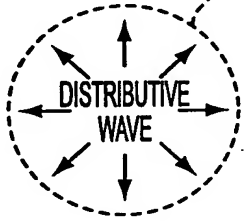
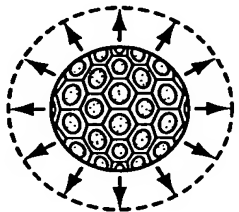
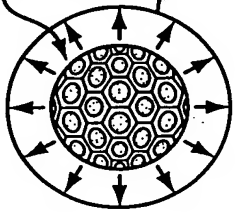
EXT EVENT	EXT CAPTURE	EXT SYNTHESIS	EXT REPRODUCTION
ORIGINAL SOUND EVENT CONTINUOUS 	DISCRETE NODAL CAPTURE SEGMENTED 	INVERSE DISTRIBUTIVE WAVE COMPUTATIONS 	DISTRIBUTIVE WAVE PRODUCTION INTEGRAL WAVE REPRODUCTION 
ANALOG DOMAIN	ANALOG CAPTURE ANALOG → DIGITAL CONVERSION	DIGITAL DOMAIN	DIGITAL → ANALOG CONVERSION

FIG. 12B

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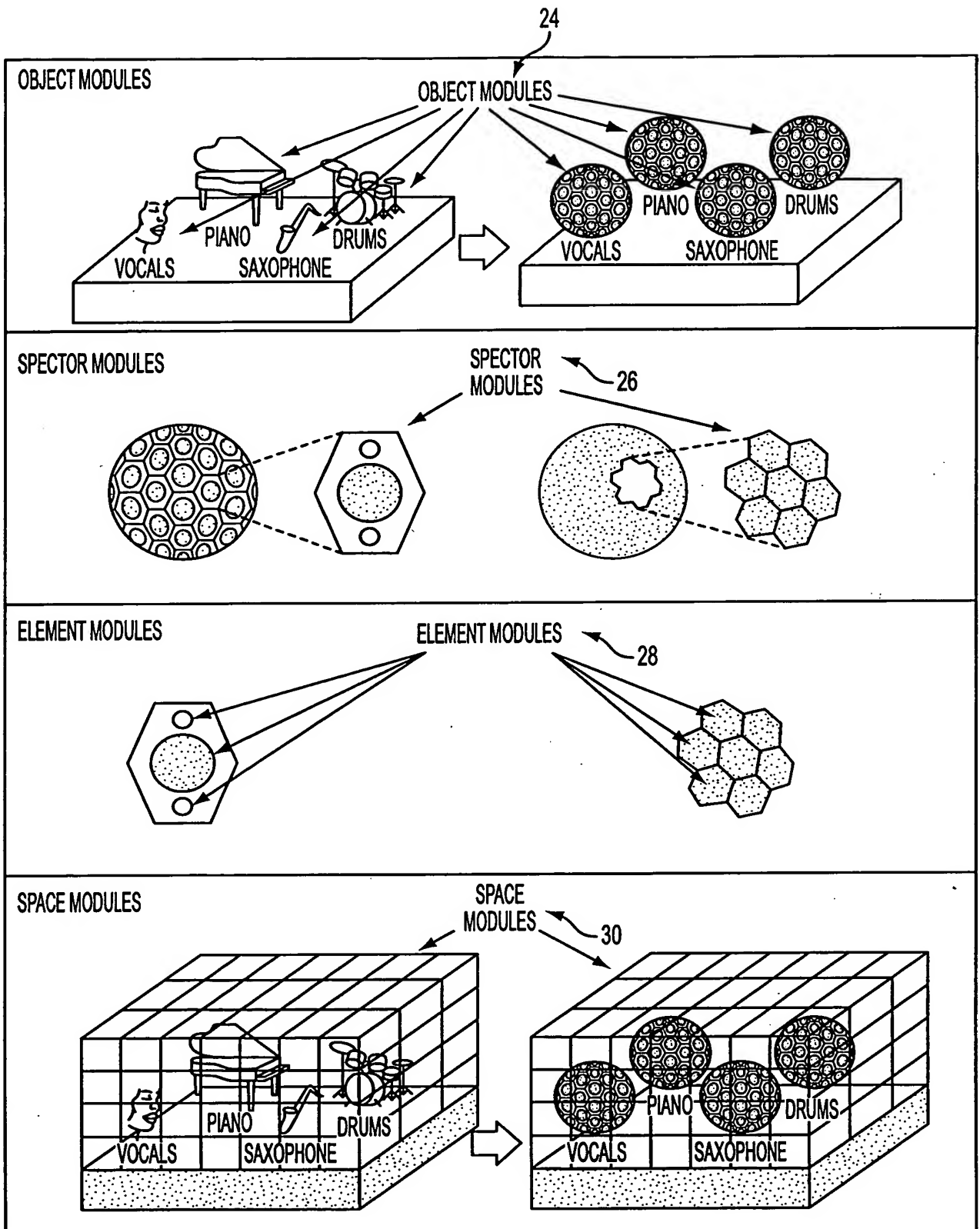


FIG. 13



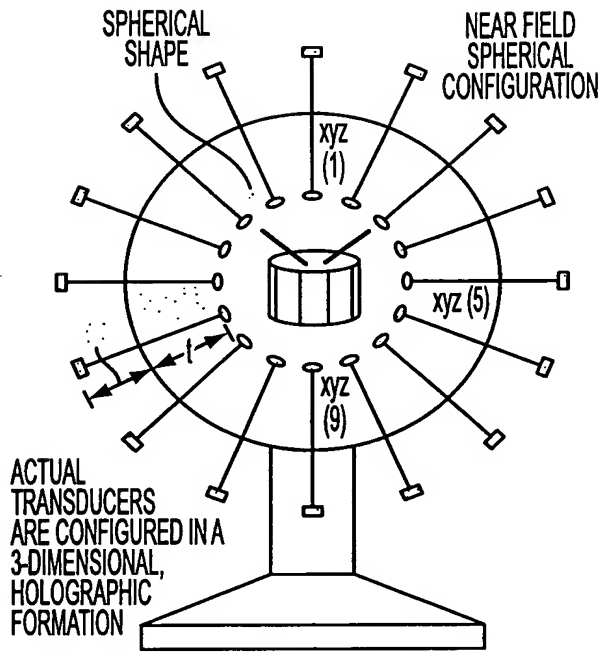


FIG. 16A

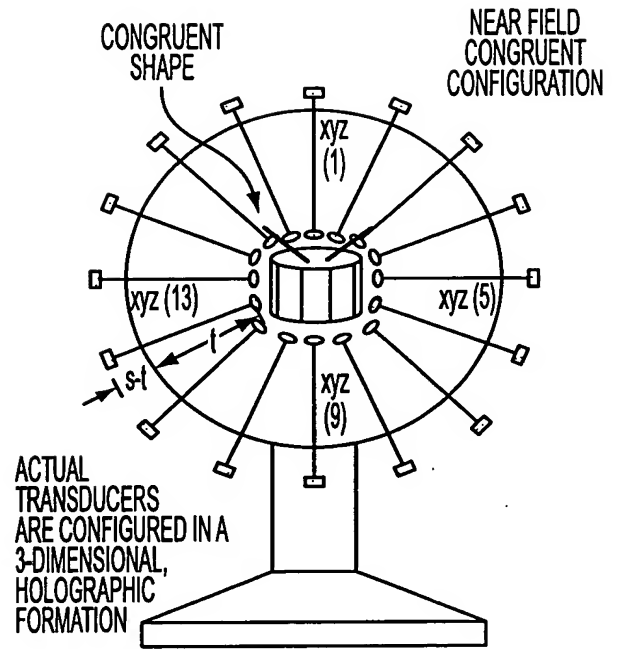


FIG. 16B

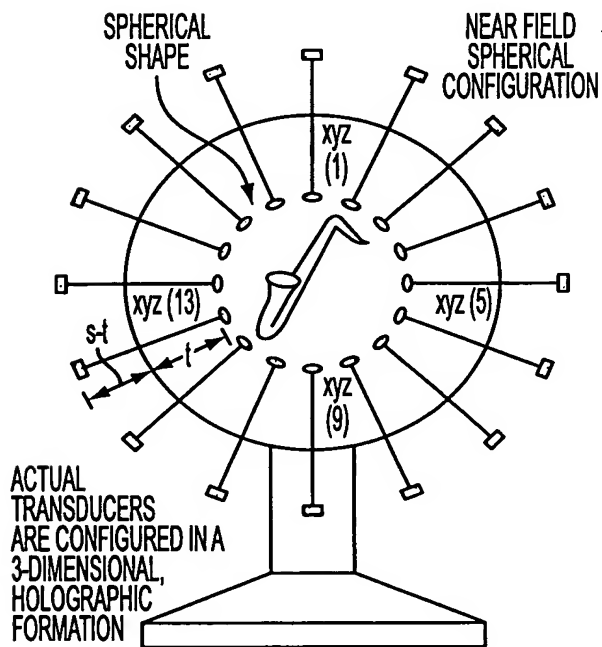


FIG. 16C

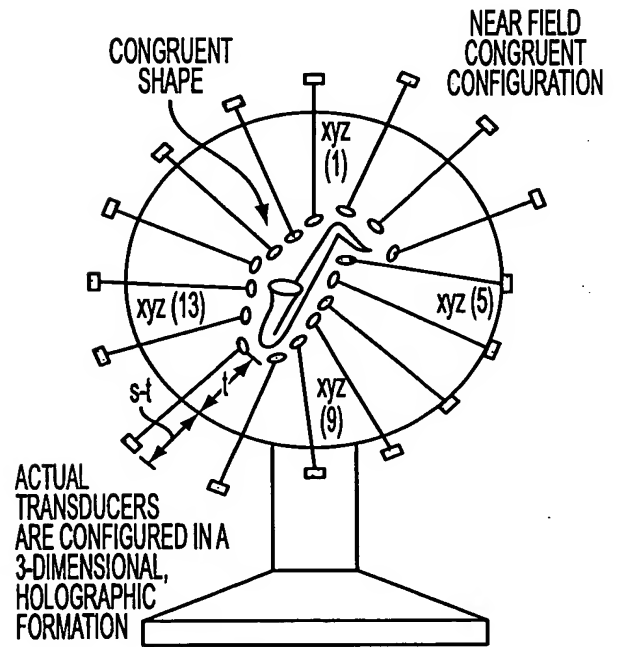


FIG. 16D

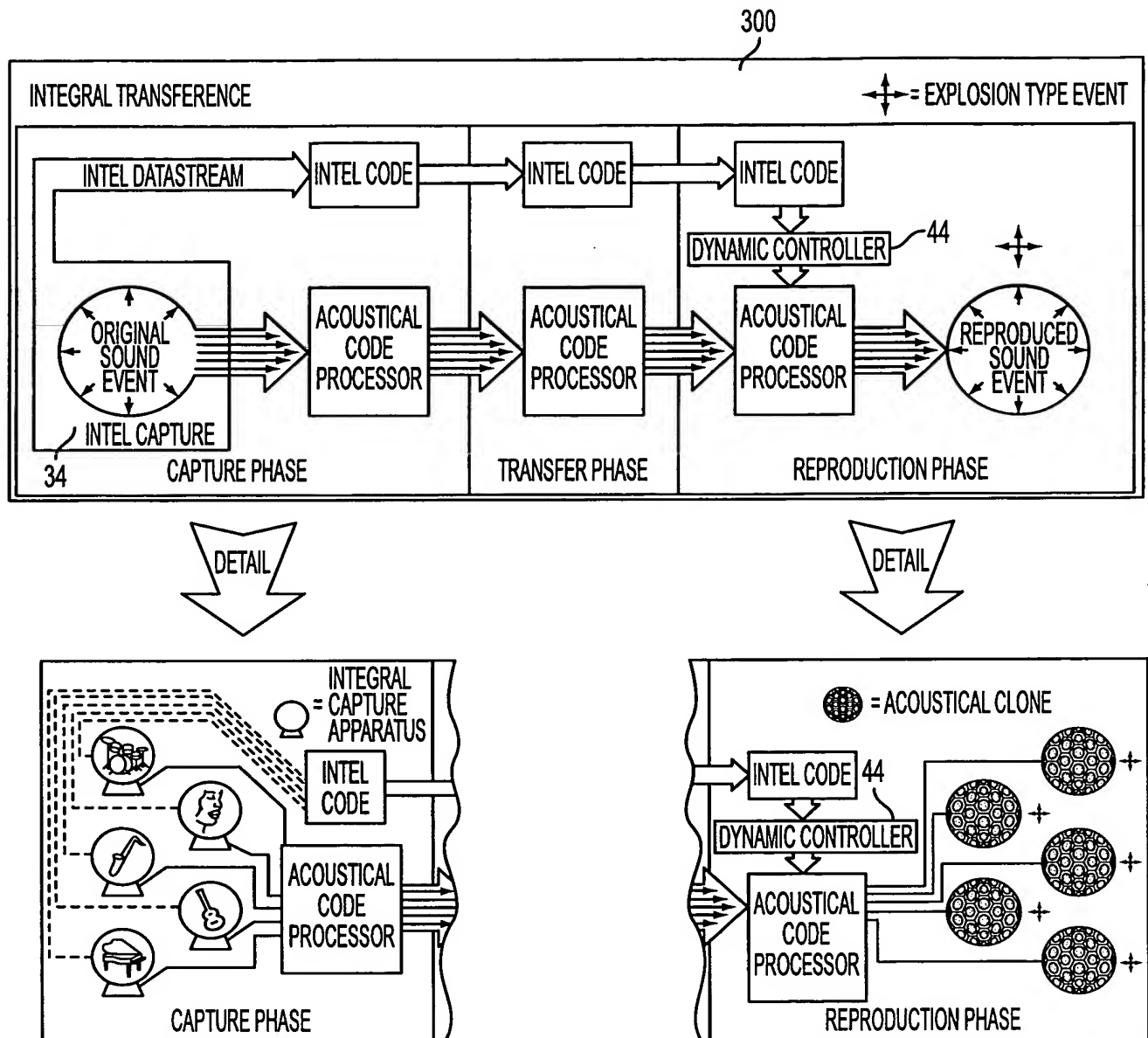


FIG. 17



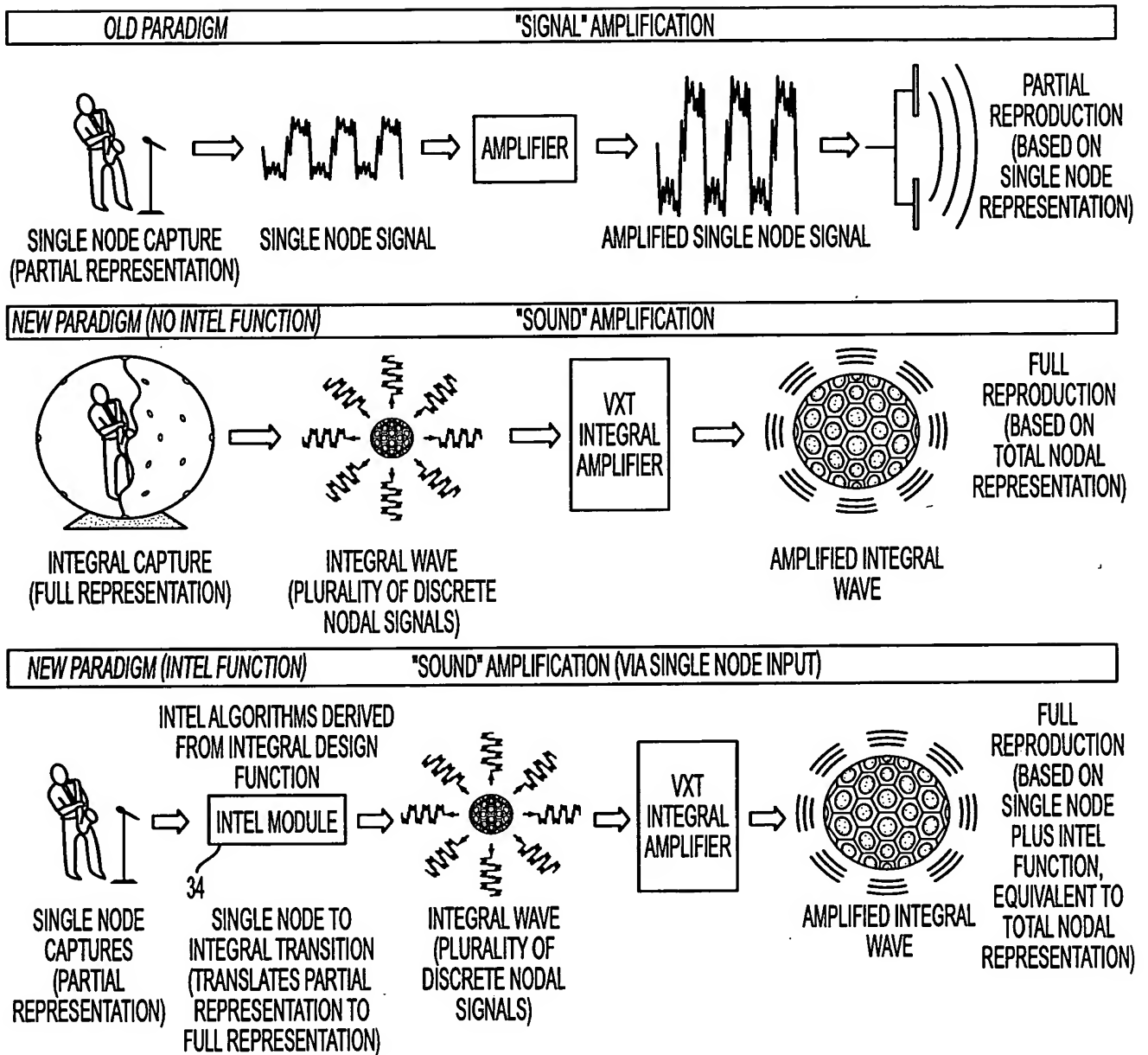


FIG. 18A

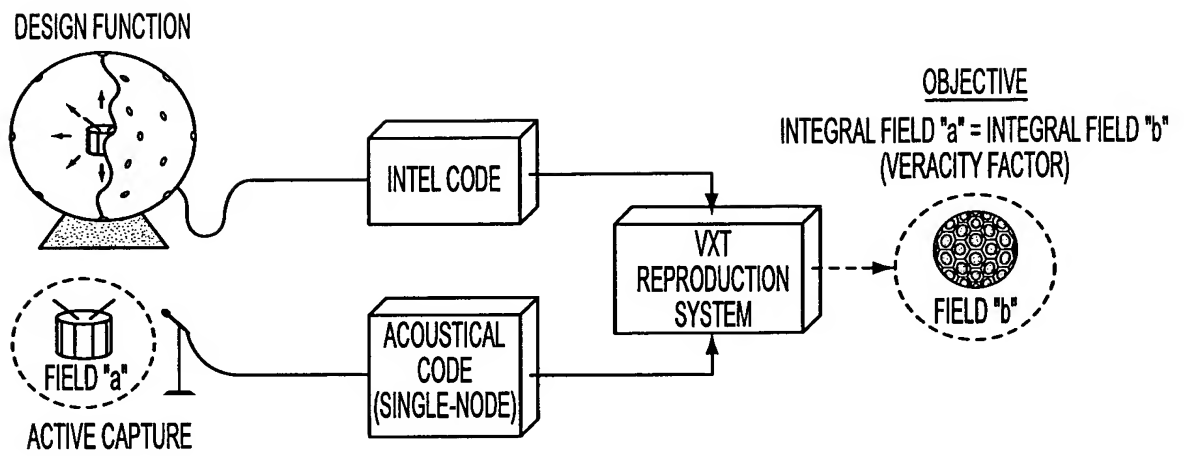
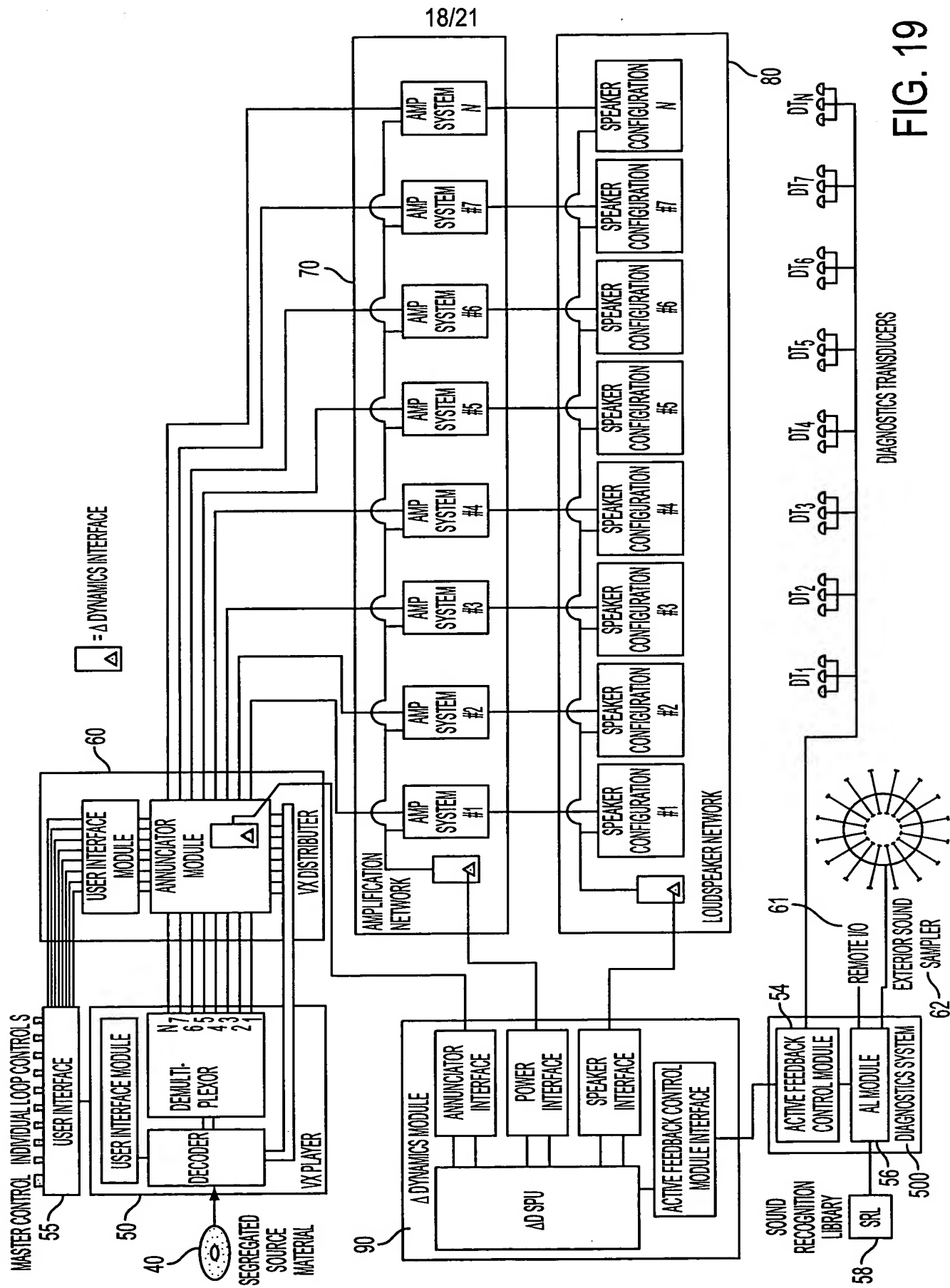


FIG. 18B



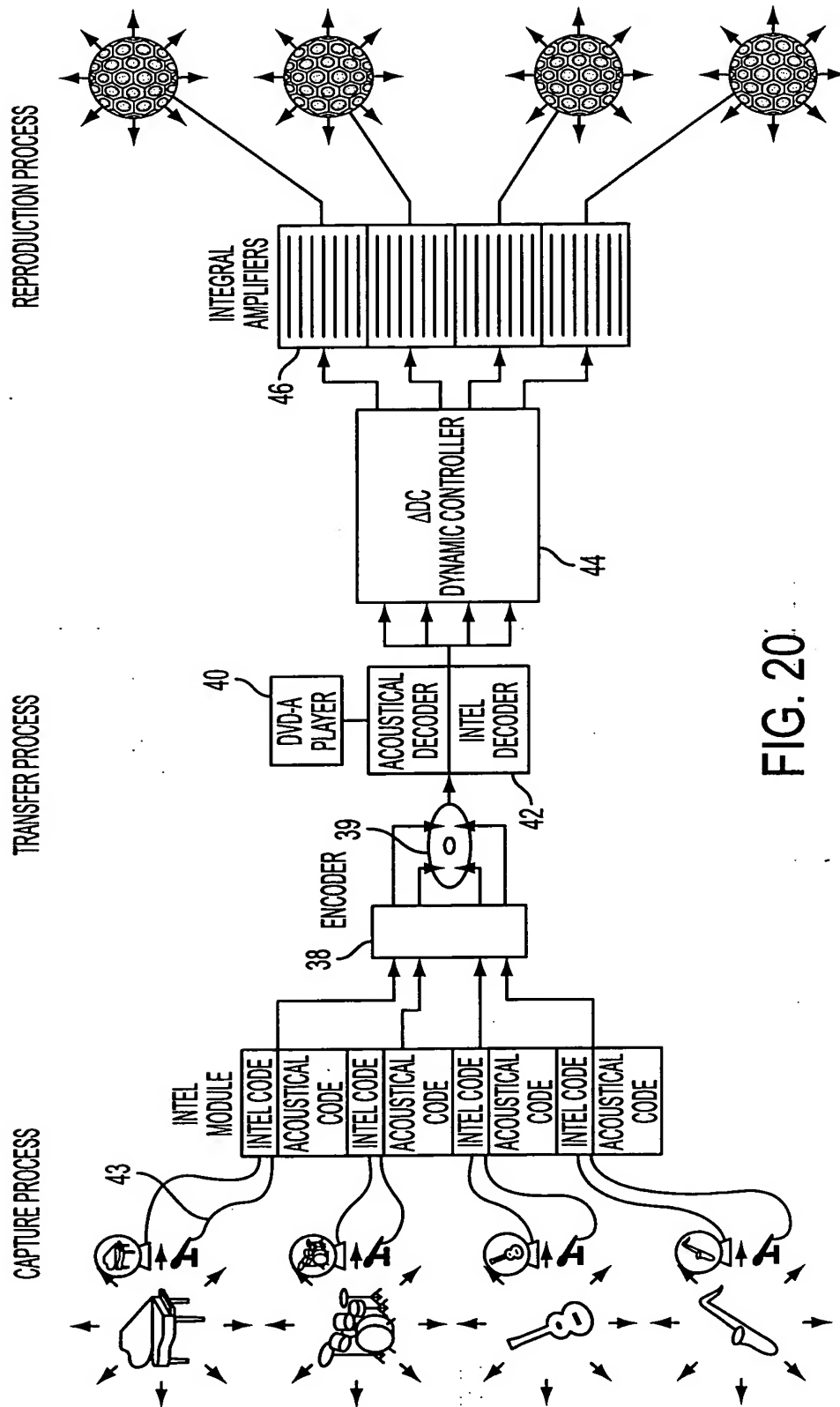


FIG. 20

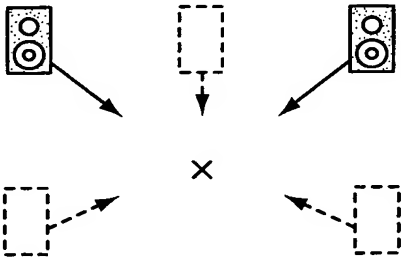
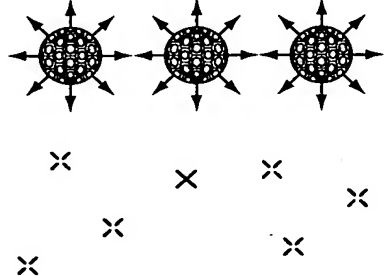
CONVERGENT WAVE FIELD SYNTHESIS (CWFS)	DIVERGENT WAVE FIELD SYNTHESIS (DWFS)
 <p>— = STEREO  - - - = SURROUND SOUND  X = LISTENER'S POSITION</p>	 <p>X = PRIMARY LISTENING POSITION  x = ALTERNATE LISTENING POSITIONS</p>
<p>RECEIVER ORIENTED (WAVE FIELD CONVERGES ON RECEIVER)</p> <p>STATIONARY PERSPECTIVE (SWEET SPOT)</p> <p>STEREO OR SURROUND (PER EVENT)</p> <p>DISCRETE MULTICHANNELS USED FOR DIRECTIONAL CUES (L,R,C,RL,RR,ETC)</p> <p>COMPOSITE RENDERING (DISCRETE SOURCES ARE MIXED TOGETHER EARLY IN THE RECORDING &amp; REPRODUCTION CHAIN)</p> <p>INTEGRAL WAVE FORM OF DISCRETE SOURCES ARE LOST DUE TO THE MIXING OF SIGNALS AND PARADIGMATIC DISTORTIONS</p>	<p>SOURCE ORIENTED (WAVE FIELD DIVERGES FROM SOURCES)</p> <p>MOVABLE PERSPECTIVE (NO SWEET SPOT)</p> <p>MONO (PER DISCRETE SOURCE)</p> <p>DISCRETE MULTICHANNELS USED FOR SOURCE SEGREGATION AND CUSTOMIZATION</p> <p>DISCRETE RENDERING (DISCRETE SOURCES REMAIN DISCRETE ALL THE WAY THROUGH THE RECORDING &amp; REPRODUCTION CHAIN)</p> <p>INTEGRAL WAVE FORM OF DISCRETE SOURCES CAN BE REPRODUCED BECAUSE THERE ARE NO PARADIGMATIC DISTORTIONS AND THE SOURCE SIGNALS REMAIN SEGREGATED</p>

FIG. 21

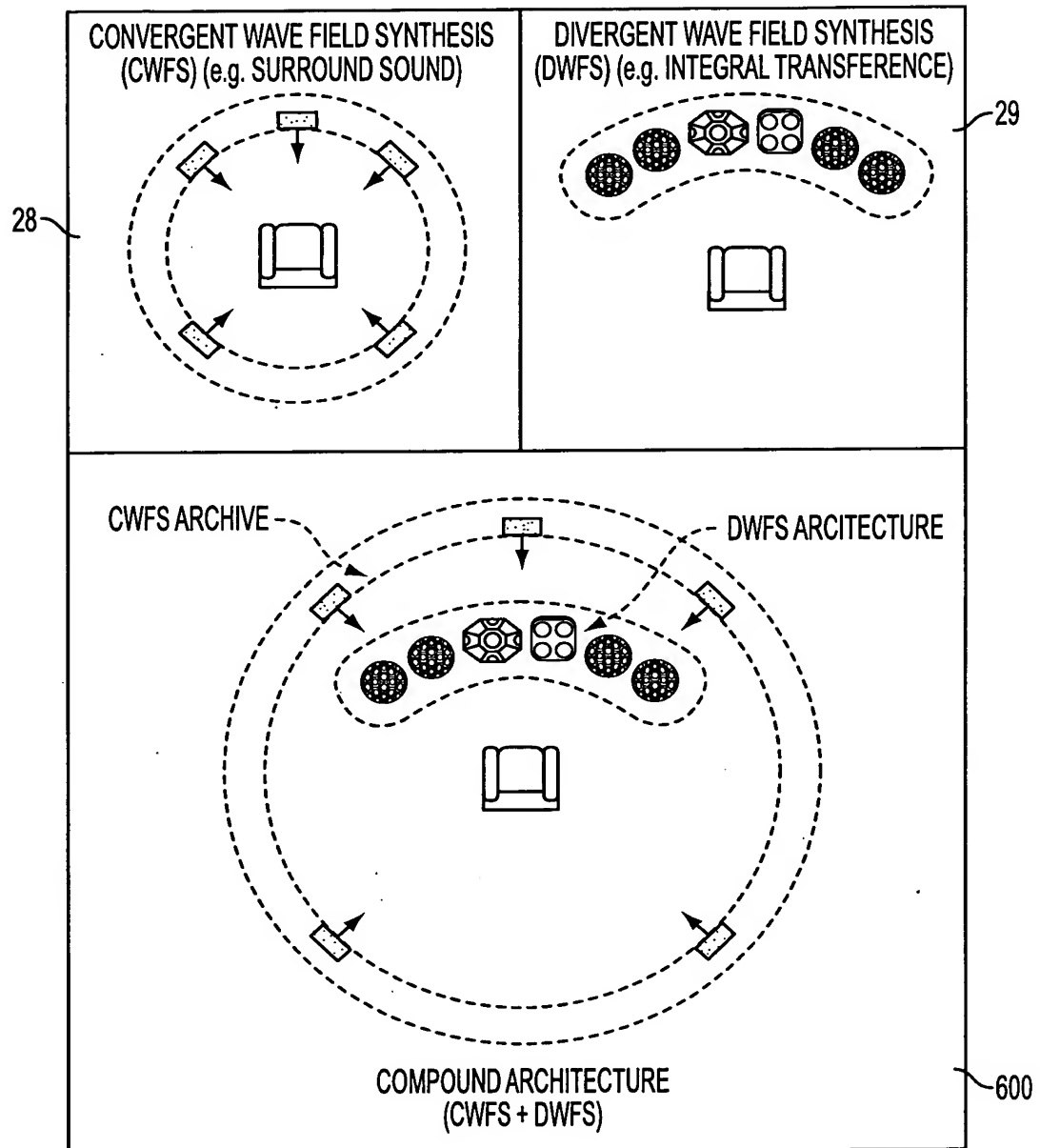


FIG. 22